BİRUNİ UNIVERSITY "Future of Science"

CURRICULUM VITAE AND PUBLICATIONS LIST

CURRICULUM VITAE

Name and Surname: Yakup YILDIRIM

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Area of Expertise: Mathematics

Degree	Department/Program	University	Year
Doctorate	MATEMATİK (DR)	Bursa Uludağ University	2019
Master's Degree	MATEMATİK (YL) (TEZLİ)	Bursa Uludağ University	2015
Bachelor's Degree	MATEMATİK BÖLÜMÜ	Eskişehir Osmangazi University	2011

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

A1. "Modulating soliton dynamics: The role of tunable external potentials in nonisospectral nonlinear Schrödinger systems", Physics Letters, Section A: General, Atomic and Solid State Physics, 2025.

A2. "Novel soliton solutions of the (3+1)-dimensional stochastic nonlinear Schrödinger equation in birefringent fibers", Chaos, Solitons and Fractals, 2025.

A3. "Quiescent solitons in couplers for optical metamaterials with Kudryashov's sextic power-law of self-phase modulation having nonlinear chromatic dispersion", European Physical Journal Plus, 2025.

A4. "Dispersive optical solitons with parabolic law of self-phase modulation and multiplicative white noise", Journal of Optics (India), 2025.

A5. "Novel solitary wave solutions in a generalized derivative nonlinear Schrödinger equation with multiplicative white noise effects", Nonlinear Dynamics, 2025.

A6. "Unveiling new quiescent dark and singular solitary solutions of the Fokas–Lenells equation", European Physical Journal Plus, 2025.

A7. "Analysis of novel optical cubic–quartic solitons in the (2+1)-dimensional nonlinear Schrödinger equation with multiplicative white noise", Physics Letters, Section A: General, Atomic and Solid State Physics, 2025.

A8. "Optical solitons for the concatenation model with fractional temporal evolution", Ain Shams Engineering Journal, 2025.

A9. "Quiescent optical solitons in magneto–optic waveguides having Kudryashov's quintuple power–law of self–phase modulation", Ain Shams Engineering Journal, 2025.

A10. "Optical Solitons for the Dispersive Concatenation Model with Differential Group Delay", NONLINEAR OPTICS QUANTUM OPTICS-CONCEPTS IN MODERN OPTICS, 2025.

A11. "Sub-pico-second chirped optical solitons in birefringent fibers for space-time fractional Kaup-Newell equation", JOURNAL OF THE EUROPEAN OPTICAL SOCIETY-RAPID PUBLICATIONS, 2025.

A12. "Optical Solitons with Parabolic and Weakly Nonlocal Law of Self-Phase Modulation by Laplace–Adomian Decomposition Method", CMES - Computer Modeling in Engineering and Sciences, 2025.

A13. "Novel solitary wave solutions of the (3+1)–dimensional nonlinear Schrödinger equation with generalized Kudryashov self–phase modulation", AIMS Mathematics, 2025.

A14. "New solitary waveforms and their dynamics in the stochastic generalized Chen–Lee–Liu model", AIMS Mathematics, 2025.

A15. "Implicit quiescent optical solitons for perturbed Fokas–Lenells equation with nonlinear chromatic dispersion and a couple of self-phase modulation structures by Lie symmetry", Semiconductor Physics, Quantum Electronics and Optoelectronics, 2025.

A16. "Dispersive optical soliton perturbation with multiplicative white noise having parabolic law of self-phase modulation", Semiconductor Physics, Quantum Electronics and Optoelectronics, 2025.

A17. "Quiescent Optical Solitons for the Concatenation Model Having Nonlinear Chromatic Dispersion and Kerr Law of Self-Phase Modulation", Contemporary Mathematics (Singapore), 2025.

A18. "Optical Soliton Parameter Dynamics by Variational Principle: Anti-cubic and Generalized Anti-cubic Forms of Self-phase Modulation (Super-gaussian and Super-sech Pulses)", NONLINEAR OPTICS QUANTUM OPTICS-CONCEPTS IN MODERN OPTICS, 2025.

A19. "Optical Solitons with Dispersive Concatenation Model Having Fractional Temporal Evolution", Contemporary Mathematics (Singapore), 2025.

A20. "Optical Solitons with the Concatenation Model Having Fractional Temporal Evolution with Depleted Self-Phase Modulation", Contemporary Mathematics (Singapore), 2025.

A21. "Sequel to "Optical Soliton Perturbation with the Concatenation Model: Semi-inverse Variation": Power-law of Self-phase Modulation", NONLINEAR OPTICS QUANTUM OPTICS-CONCEPTS IN MODERN OPTICS, 2025.

A22. "QUIESCENT OPTICAL SOLITONS IN MAGNETO-OPTIC WAVEGUIDES WITH KUDRYASHOV'S AND GENERALIZED NONLOCAL FORM OF SELF-PHASE MODULATION HAVING NONLINEAR CHROMATIC DISPERSION AND GENERALIZED TEMPORAL EVOLUTION", UKRAINIAN JOURNAL OF PHYSICAL OPTICS, 2025.

A23. "Cnoidal Waves, Solitary Waves, Shock Waves and Conservation Laws of the Generalized Cubic Boussinesq-Type Model for Shallow Water Wave Dynamics", Contemporary Mathematics (Singapore), 2025.

A24. "Dark and Singular Optical Solitons for Kundu-Eckhaus Equation with Differential Group Delay by the Generalized ϕ6-Model Expansion", Contemporary Mathematics (Singapore), 2025.

A25. "Perturbation of Solitary Waves and Shock Waves with Surface Tension", Contemporary Mathematics (Singapore), 2025.

A26. "Quiescent Optical Soliton Perturbation for Fokas-Lenells Equation with Nonlinear Chromatic Dispersion and Generalized Quadratic-Cubic Form of Self-Phase Modulation Structure", Contemporary Mathematics (Singapore), 2025.

A27. "Optical soliton perturbation for complex Ginzburg–Landau equation with multiplicative white noise and seven forms of Kudryashov's self–phase modulation structures", Journal of Taibah University for Science, 2025.

A28. "OPTICAL SOLITONS WITH ARBITRARY INTENSITY AND CONSERVATION LAWS OF THE PERTURBED RESONANT NONLINEAR SCHRODINGER'S EQUATION", Ukrainian Journal of Physical Optics, 2025.

A29. "Optical solitons for the concatenation model with differential group delay having multiplicative white noise by F–expansion approach", Physics Letters, Section A: General, Atomic and Solid State Physics, 2024.

A30. "Optical soliton solutions in birefringent fibers with multiplicative white noise: an analysis for the perturbed Chen–Lee–Liu model", Nonlinear Dynamics, 2024.

A31. "Optical solitons and conservation laws for the concatenation model in the absence of self-phase modulation", Journal of Optics (India), 2024.

A32. "Novel solitary wave solutions for stochastic nonlinear reaction–diffusion equation with multiplicative noise", Nonlinear Dynamics, 2024.

A33. "Investigation of optical soliton solutions for the cubic-quartic derivative nonlinear Schrödinger equation using advanced integration techniques", Physica Scripta, 2024.

A34. "Optical solitons for the concatenation model with power–law of self–phase modulation by lie symmetry", Nonlinear Dynamics, 2024.

A35. "Quiescent optical solitons with Kudryashov's generalized quintuple-power law and nonlocal nonlinearity having nonlinear chromatic dispersion with generalized temporal evolution by enhanced direct algebraic method and sub-ODE approach", European Physical Journal Plus, 2024.

A36. "Optical solitons for the concatenation model with multiplicative white noise", Journal of Optics (India), 2024.

A37. "Novel stochastic embedded solitons with quadratic nonlinear susceptibility in the presence of multiplicative noise", Physica Scripta, 2024.

A38. "Novel highly dispersive soliton solutions in couplers for optical metamaterials: leveraging generalized Kudryashov's Law of refractive index with eighth-order dispersion and multiplicative white noise", Physica Scripta, 2024.

A39. "Optical solitons with DWDM topology having parabolic law nonlinearity with multiplicative white noise", Journal of Optics (India), 2024.

A40. "Exploring the impact of multiplicative white noise on novel soliton solutions with the perturbed Triki–Biswas equation", European Physical Journal Plus, 2024.

A41. "Quiescent optical solitons for Fokas–Lenells equation with nonlinear chromatic dispersion and a couple of self-phase modulation structures", European Physical Journal Plus, 2024.

A42. "Chirped self-similar optical solitons with cubic–quintic–septic–nonic form of self-phase modulation", Chaos, Solitons and Fractals, 2024.

A43. "Propagation dynamics of nonautonomous solitons in a temporally modulated cubic–quintic–septimal nonlinear medium", European Physical Journal Plus, 2024.

A44. "Optical solitons and conservation laws for the concatenation model: Power–law nonlinearity", Ain Shams Engineering Journal, 2024.

A45. "IMPLICIT QUIESCENT OPTICAL SOLITONS FOR COMPLEX GINZBURG–LANDAU EQUATION WITH GENERALIZED QUADRATIC– CUBIC FORM OF SELF–PHASE MODULATION AND NONLINEAR CHROMATIC DISPERSION BY LIE SYMMETRY", Ukrainian Journal of Physical Optics, 2024.

A46. "Special Issue on Optical Solitons honoring the 60th Birthday of Prof. Anjan Biswas", UKRAINIAN JOURNAL OF PHYSICAL OPTICS, 2024.

A47. "Optical Solitons with Differential Group Delay and Inter-Modal Dispersion Singlet", Contemporary Mathematics (Singapore), 2024.

A48. "A pen-picture of optical solitons for the concatenation model with power-law of self-phase modulation by Sardar's sub-equation method and tanh-coth approach", OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, 2024.

A49. "HIGHLY DISPERSIVE GAP SOLITONS IN OPTICAL FIBERS WITH DISPERSIVE REFLECTIVITY HAVING PARABOLIC–NONLOCAL NONLINEARITY", Ukrainian Journal of Physical Optics, 2024.

A50. "QUESCENT OPTICAL SOLITONS FOR THE DISPERSIVE CONCATENATION MODEL WITH KERR LAW NONLINEARITY HAVING NONLINEAR CHROMATIC DISPERSION", Ukrainian Journal of Physical Optics, 2024.

A51. "HIGHLY DISPERSIVE SOLITONS IN OPTICAL COUPLERS WITH METAMATERIALS HAVING KERR LAW OF NONLINEAR REFRACTIVE INDEX", Ukrainian Journal of Physical Optics, 2024.

A52. "OPTICAL SOLITONS FOR THE CONCATENATION MODEL WITH KERR LAW NONLINEARITY BY LIE SYMMETRY", Ukrainian Journal of Physical Optics, 2024.

A53. "A full spectrum of optical solitons for the concatenation model", Nonlinear Dynamics, 2024.

A54. "IMPLICIT QUIESCENT OPTICAL SOLITONS WITH GENERALIZED QUADRATIC–CUBIC FORM OF SELF–PHASE MODULATION AND NONLINEAR CHROMATIC DISPERSION BY LIE SYMMETRY", Ukrainian Journal of Physical Optics, 2024.

A55. "CUBIC-QUARTIC OPTICAL SOLITONS WITH KUDRYASHOV'S LAW OF SELF-PHASE MODULATION", Ukrainian Journal of Physical Optics, 2024.

A56. "QUIESCENT OPTICAL SOLITONS FOR FOKAS–LENELLS EQUATION WITH NONLINEAR CHROMATIC DISPERSION HAVING QUADRATIC AND QUADRATIC-QUARTIC FORMS OF SELF-PHASE MODULATION", Ukrainian Journal of Physical Optics, 2024.

A57. "CNOIDAL WAVES AND SOLITONS TO THREE-COUPLED NONLINEAR SCHRODINGER'S EQUATION WITH SPATIALLY-DEPENDENT COEFFICIENTS", Ukrainian Journal of Physical Optics, 2024.

A58. "OPTICAL SOLITONS FOR THE DISPERSIVE CONCATENATION MODEL BY LAPLACE-ADOMIAN DECOMPOSITION", Ukrainian Journal of Physical Optics, 2024.

A59. "OPTICAL SOLITONS FOR THE CONCATENATION MODEL WITH DIFFERENTIAL GROUP DELAY HAVING MULTIPLICATE WHITE NOISE", Ukrainian Journal of Physical Optics, 2024.

A60. "DISPERSIVE OPTICAL SOLITONS WITH STOCHASTIC RADHAKRISHNAN-KUNDU-LAKSHMANAN EQUATION IN MAGNETO-OPTIC WAVEGUIDES HAVING POWER LAW NONLINEARITY AND MULTIPLICATIVE WHITE NOISE", Ukrainian Journal of Physical Optics, 2024.

A61. "OPTICAL SOLITONS OF THE GENERALIZED STOCHASTIC GERDJIKOV-IVANOV EQUATION IN THE PRESENCE OF MULTIPLICATIVE WHITE NOISE", Ukrainian Journal of Physical Optics, 2024.

A62. "HIGHLY DISPERSIVE OPTICAL SOLITONS WITH QUADRATIC-CUBIC NONLINEAR REFRACTIVE INDEX BY LIE SYMMETRY", Journal of Applied Analysis and Computation, 2024.

A63. "CHIRPED COSH–GAUSSIAN OPTICAL PULSES WITH KUDRYASHOV'S FORM OF SELF-PHASE MODULATION BY VARIATIONAL PRINCIPLE", Ukrainian Journal of Physical Optics, 2024.

A64. "Bifurcation analysis and optical soliton perturbation with Radhakrishnan–Kundu–Lakshmanan equation", Proceedings of the Estonian Academy of Sciences, 2024.

A65. "QUIESCENT BRIGHT OPTICAL SOLITONS FOR RADHAKRISHNAN– KUNDU–LAKSHMANAN EQUATION WITH NONLINEAR CHROMATIC DISPERSION AND POWER—LAW OF SELF–PHASE MODULATION BY LIE SYMMETRY", Ukrainian Journal of Physical Optics, 2024.

A66. "Highly dispersive optical soliton perturbation with Kerr law for complex Ginzburg–Landau equation", Proceedings of the Estonian Academy of Sciences, 2024.

A67. "Stochastic Perturbation of Optical Solitons for the Concatenation Model with Power-Law of Self-Phase Modulation Having Multiplicative White Noise", Contemporary Mathematics (Singapore), 2024.

A68. "QUIESCENT OPTICAL SOLITONS FOR THE COMPLEX GINZBURG– LANDAU EQUATION WITH NONLINEAR CHROMATIC DISPERSION AND KUDRYASHOV'S FORMS OF SELF–PHASE MODULATION", Ukrainian Journal of Physical Optics, 2024.

A69. "Optical Solitons with Dispersive Concatenation Model Having Multiplicative White Noise by the Enhanced Direct Algebraic Method", Contemporary Mathematics (Singapore), 2024.

A70. "OPTICAL SOLITON PERTURBATION WITH THE CONCATENATION MODEL: SEMI-INVERSE VARIATION", Comptes Rendus de L'Academie Bulgare des Sciences, 2024.

A71. "BIFURCATION ANALYSIS AND OPTICAL SOLITONS FOR THE DISPERSIVE CONCATENATION MODEL", Ukrainian Journal of Physical Optics, 2024.

A72. "OPTICAL SOLITONS FOR THE DISPERSIVE CONCATENATION MODEL WITH DIFFERENTIAL GROUP DELAY BY THE COMPLETE DISCRIMINANT APPROACH", Ukrainian Journal of Physical Optics, 2024.

A73. "Highly Dispersive Optical Solitons with Quadratic-Cubic Nonlinear form of Self-Phase Modulation by Sardar Sub-Equation Approach", Contemporary Mathematics (Singapore), 2024.

A74. "Highly Dispersive Optical Gap Solitons with Kundu-Eckhaus Equation Having Multiplicative White Noise", Contemporary Mathematics (Singapore), 2024.

A75. "Revisitation of “Implicit Quiescent Optical Solitons with Complex Ginzburg-Landau Equation Having Nonlinear Chromatic Dispersion”: Linear Temporal Evolution", Contemporary Mathematics (Singapore), 2024.

A76. "A Couple of Fresh New Perspectives on the Concatenation Model with Power-Law of Self-Phase Modulation", Contemporary Mathematics (Singapore), 2024.

A77. "Optical Solitons for the Dispersive Concatenation Model with Polarization Mode Dispersion by Sardar’s Sub-Equation Approach", Contemporary Mathematics (Singapore), 2024.

A78. "OPTICAL SOLITON PARAMETERS BY VARIATIONAL PRINCIPLE: POLYNOMIAL AND TRIPLE-POWER LAWS (SUPER-GAUSSONS AND SUPER-SECH PULSES)", Ukrainian Journal of Physical Optics, 2024.

A79. "SEQUEL TO “STATIONARY OPTICAL SOLITONS WITH NONLINEAR CHROMATIC DISPERSION FOR LAKSHMANAN–PORSEZIAN–DANIEL MODEL HAVING KERR LAW OF NONLINEAR REFRACTIVE INDEX": GENERALIZED TEMPORAL EVOLUTION", Ukrainian Journal of Physical Optics, 2024.

A80. "BRIGHT, DARK, AND W-SHAPED SOLITONS OF BISWAS–ARSHED EQUATION VIA VARIATIONAL ITERATION METHOD", Ukrainian Journal of Physical Optics, 2024.

A81. "Highly Dispersive Optical Solitons with Differential Group Delay for Kerr Law of Self-Phase Modulation by Sardar Sub-Equation Approach", Contemporary Mathematics (Singapore), 2024.

A82. "Dark-Singular Straddled Optical Solitons for the Dispersive Concatenation Model with Power-Law of Self-Phase Modulation by Tanh-Coth Approach", Contemporary Mathematics (Singapore), 2024.

A83. "OPTICAL SOLITON PERTURBATION WITH DISPERSIVE CONCATENATION MODEL: SEMI–INVERSE VARIATION", Ukrainian Journal of Physical Optics, 2024.

A84. "Painlevé Analysis and Chiral Solitons from Quantum Hall Effect", Contemporary Mathematics (Singapore), 2024.

A85. "OPTICAL SOLITONS WITH DWDM TOPOLOGY AND PARABOLIC LAW OF SELF-PHASE MODULATION HAVING MULTIPLICATIVE WHITE NOISE: A REVISITATION", Journal of Physical Studies, 2024.

A86. "Optical solitons for the concatenation model: Power-law nonlinearity", Chaos, Solitons and Fractals, 2023.

A87. "Highly dispersive optical solitons in birefringent fibers with Lakshmanan–Porsezian–Daniel model having multiplicative white noise", Nonlinear Dynamics, 2023.

A88. "Cubic-quartic optical solitons of the complex Ginzburg-Landau equation: A novel approach", Nonlinear Dynamics, 2023.

A89. "Embedded solitons with (2) nonliner susceptibility", Scientia Iranica, 2023.

A90. "Bifurcation analysis and optical solitons for the concatenation model", Physics Letters, Section A: General, Atomic and Solid State Physics, 2023.

A91. "Quasimonochromatic dynamical system and optical soliton cooling with triple–power law of self–phase modulation", Physics Letters, Section A: General, Atomic and Solid State Physics, 2023.

A92. "Chirped periodic waves and solitary waves for a generalized derivative resonant nonlinear Schrödinger equation with cubic–quintic nonlinearity", Nonlinear Dynamics, 2023.

A93. "Highly dispersive W–shaped and other optical solitons with quadratic–cubic nonlinearity: Symmetry analysis and new Kudryashov's method", Chaos, Solitons and Fractals, 2023.

A94. "Dispersive optical solitons with DWDM topology and multiplicative white noise", Results in Physics, 2023.

A95. "Propagation of chirped gray solitons in weakly nonlocal media with parabolic law nonlinearity and spatio-temporal dispersion", Physics Letters, Section A: General, Atomic and Solid State Physics, 2023.

A96. "Evaluating the Efficiency of Various Treatment Methods in Cattle Cutaneous Papillomatosis", Veterinaria Italiana, 2023.

A97. "Optical Solitons for the Concatenation Model with Differential Group Delay: Undetermined Coefficients", Mathematics, 2023.

A98. "Quiescent optical solitons with complex Ginzburg–Landau equation having a dozen forms of self–phase modulation", Heliyon, 2023.

A99. "Gap Solitons in Fiber Bragg Gratings Having Polynomial Law of Nonlinear Refractive Index and Cubic–Quartic Dispersive Reflectivity by Lie Symmetry", Symmetry, 2023.

A100. "Chirped spatial solitons on a continuous-wave background in weak nonlocal media with polynomial law of nonlinearity", Physics Letters, Section A: General, Atomic and Solid State Physics, 2023.

A101. "Quiescent optical solitons with Kudryashov's law of nonlinear refractive index", Results in Physics, 2023.

A102. "Quiescent Optical Solitons for the Concatenation Model with Nonlinear Chromatic Dispersion", Mathematics, 2023.

A103. "Pure–quartic optical solitons and modulational instability analysis with cubic–quintic nonlinearity", Chaos, Solitons and Fractals, 2023.

A104. "Highly Dispersive Optical Solitons in the Absence of Self-Phase Modulation by Lie Symmetry", Symmetry, 2023.

A105. "Optical solitons in birefringent fibers with Sasa-Satsuma equation having multiplicative noise with Itô calculus", Journal of Nonlinear Optical Physics and Materials, 2023.

A106. "Dispersive optical solitons and conservation laws of Radhakrishnan–Kundu–Lakshmanan equation with dual–power law nonlinearity", Heliyon, 2023.

A107. "Quiescent Optical Solitons with Quadratic-Cubic and Generalized Quadratic-Cubic Nonlinearities", Telecom, 2023.

A108. "Dispersive Optical Solitons with Differential Group Delay Having Multiplicative White Noise by Itô Calculus", Electronics (Switzerland), 2023.

A109. "Painlevé analysis and optical solitons for a concatenated model", Optik, 2023.

A110. "Conservation laws for cubic-quartic optical solitons in birefringent fibers with Sasa-Satsuma equation", OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, 2023.

A111. "Dispersive optical solitons with Schrodinger-Hirota equation by a couple of integration schemes", JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 2023.

A112. "Highly Dispersive Optical Solitons in Fiber Bragg Gratings with Quadratic-Cubic Nonlinearity", Electronics (Switzerland), 2023.

A113. "Optical Solitons for a Concatenation Model by Trial Equation Approach", Electronics (Switzerland), 2023.

A114. "Dark and Singular Highly Dispersive Optical Solitons with Kudryashov’s Sextic Power-Law of Nonlinear Refractive Index in the Absence of Inter-Modal Dispersion", Electronics (Switzerland), 2023.

A115. "Optical Solitons in Magneto-Optic Waveguides Having Kudryashov’s Law of Nonlinear Refractive Index by Trial Equation Approach", Electronics (Switzerland), 2023.

A116. "Optical solitons for the concatenation model with Kurdryashov’s approaches", Ukrainian Journal of Physical Optics, 2023.

A117. "Quiescent optical solitons with Kudryashov’s generalized quintuple-power and nonlocal nonlinearity having nonlinear chromatic dispersion: generalized temporal evolution", Ukrainian Journal of Physical Optics, 2023.

A118. "Optical solitons for the concatenation model with power-law nonlinearity: undetermined coefficients", Ukrainian Journal of Physical Optics, 2023.

A119. "W-shaped chirp free and chirped bright, dark solitons for perturbed nonlinear Schrödinger equation in nonlinear optical fibers", Proceedings of the Estonian Academy of Sciences, 2023.

A120. "NUMERICAL SIMULATION OF HIGHLY DISPERSIVE DARK OPTICAL SOLITONS WITH KERR LAW OF NONLINEAR REFRACTIVE INDEX BY LAPLACE–ADOMIAN DECOMPOSITION METHOD", Comptes Rendus de L'Academie Bulgare des Sciences, 2023.

A121. "Optical solitons and conservation laws for the concatenation model with spatio-temporal dispersion (internet traffic regulation)", Journal of the European Optical Society-Rapid Publications, 2023.

A122. "DISPERSIVE OPTICAL SOLITONS WITH RADHAKRISHNAN-KUNDU-LAKSHMANAN EQUATION HAVING MULTIPLICATIVE WHITE NOISE BY ENHANCED KUDRYASHOV'S METHOD AND EXTENDED SIMPLEST EQUATION", Comptes Rendus de L'Academie Bulgare des Sciences, 2023.

A123. "Dynamical system of optical soliton parameters by variational principle (super-Gaussian and super-sech pulses)", Journal of the European Optical Society-Rapid Publications, 2023.

A124. "Solitary waves, shock waves and conservation laws with the surface tension effect in the Boussinesq equation", Proceedings of the Estonian Academy of Sciences, 2023.

A125. "Optical solitons and complexitons for the concatenation model in birefringent fibers", Ukrainian Journal of Physical Optics, 2023.

A126. "Optical solitons and group invariants for Chen-Lee-Liu equation with time-dependent chromatic dispersion and nonlinearity by Lie symmetry", Ukrainian Journal of Physical Optics, 2023.

A127. "Gap solitons with cubic-quartic dispersive reflectivity and parabolic law of nonlinear refractive index", Ukrainian Journal of Physical Optics, 2023.

A128. "Optical Bullets and Domain Walls with Cross Spatio-Dispersion and Having Kudryashov’s form of Self-Phase Modulation", Contemporary Mathematics (Singapore), 2023.

A129. "Optical Solitons for the Dispersive Concatenation Model", Contemporary Mathematics (Singapore), 2023.

A130. "Optical solitons in magneto-optic waveguides for the concatenation model", Ukrainian Journal of Physical Optics, 2023.

A131. "Implicit Quiescent Optical Solitons for the Dispersive Concatenation Model with Nonlinear Chromatic Dispersion by Lie Symmetry", Contemporary Mathematics (Singapore), 2023.

A132. "Bifurcation Analysis and Chaotic Behavior of the Concatenation Model with Power-Law Nonlinearity", Contemporary Mathematics (Singapore), 2023.

A133. "Optical Solitons for the Dispersive Concatenation Model with Power-Law Nonlinearity by the Complete Discriminant Approach", Contemporary Mathematics (Singapore), 2023.

A134. "Bright Optical Solitons for the Concatenation Model with Power-Law Nonlinearity: Laplace-Adomian Decomposition", Contemporary Mathematics (Singapore), 2023.

A135. "Optical Solitons for the Dispersive Concatenation Model: Undetermined Coefficients", Contemporary Mathematics (Singapore), 2023.

A136. "Quiescent Optical Solitons for the Concatenation Model Having Nonlinear Chromatic Dispersion with Differential Group Delay", Contemporary Mathematics (Singapore), 2023.

A137. "Monkeypoxvirus (MPXV) in a Baby Monkey - Molecular Investigation", Acta Scientiae Veterinariae, 2023.

A138. "Pure-Cubic Optical Solitons and Stability Analysis with Kerr Law Nonlinearity", Contemporary Mathematics (Singapore), 2023.

A139. "Chirped localized pulses in a highly nonlinear optical fiber with quintic non-Kerr nonlinearities", Results in Physics, 2022.

A140. "Conservation laws of optical solitons with quadrupled power-law of self-phase modulation", Optik, 2022.

A141. "Cubic–quartic optical solitons in fiber Bragg gratings with Kerr law of nonlinearity and dispersive reflectivity by Lie symmetry", Optik, 2022.

A142. "Dark solitary pulses and moving fronts in an optical medium with the higher-order dispersive and nonlinear effects", Chaos, Solitons and Fractals, 2022.

A143. "Dispersive solitons in magneto-optic waveguides with Kudryashov's form of self-phase modulation", Optik, 2022.

A144. "Optical Solitons with Cubic-Quintic-Septic-Nonic Nonlinearities and Quadrupled Power-Law Nonlinearity: An Observation", Mathematics, 2022.

A145. "Cubic-Quartic Optical Solitons in Fiber Bragg Gratings with Dispersive Reflectivity Having Parabolic Law of Nonlinear Refractive Index by Lie Symmetry", Symmetry, 2022.

A146. "Quiescent Optical Solitons with Cubic–Quartic and Generalized Cubic–Quartic Nonlinearity", Electronics (Switzerland), 2022.

A147. "Optical Solitons in Fiber Bragg Gratings with Dispersive Reflectivity Having Five Nonlinear Forms of Refractive Index", Axioms, 2022.

A148. "Cubic–quartic optical solitons and conservation laws having cubic–quintic–septic–nonic self-phase modulation", Optik, 2022.

A149. "Quasi-monochromatic dynamical system of cubic–quartic optical solitons with Kerr law of nonlinear refractive index", Optik, 2022.

A150. "Sequel to “Quasi-monochromatic dynamical system of cubic–quartic optical solitons with Kerr law of nonlinear refractive index” (Power law)", Optik, 2022.

A151. "Optical solitons and other invariant solutions with fiber Bragg gratings and dispersive reflectivity having parabolic–nonlinear combo nonlinearity", Optik, 2022.

A152. "Conservation laws for dispersive optical solitons with Radhakrishnan–Kundu–Lakshmanan model having quadrupled power-law of self-phase modulation", Optik, 2022.

A153. "Dispersive optical solitons with Schrödinger–Hirota model having multiplicative white noise via Itô Calculus", Physics Letters, Section A: General, Atomic and Solid State Physics, 2022.

A154. "Embedded solitons with $\chi(2)$ and $\chi(3)$ nonlinear susceptibilities having multiplicative white noise via Itô Calculus", Chaos, Solitons and Fractals, 2022.

A155. "Cubic–quartic optical solitons with Biswas–Milovic equation having dual-power law nonlinearity using two integration algorithms", Optik, 2022.

A156. "Sequel to “cubic-quartic optical soliton perturbation with complex Ginzburg–Landau equation by the enhanced Kudryashov's method”", IET Optoelectronics, 2022.

A157. "Cubic–quartic optical solitons in fiber Bragg gratings with anti-cubic nonlinearity using the modified extended direct algebraic method", Optik, 2022.

A158. "Optical solitons having Kudryashov's self-phase modulation with multiplicative white noise via Itô Calculus using new mapping approach", Optik, 2022.

A159. "Cubic–quartic optical soliton perturbation with Fokas–Lenells equation having maximum intensity", Optik, 2022.

A160. "Highly Dispersive Optical Solitons in Fiber Bragg Gratings with Kerr Law of Nonlinear Refractive Index", Mathematics, 2022.

A161. "Cubic–quartic optical solitons in birefringent fibers with Sasa–Satsuma equation", Optik, 2022.

A162. "Optical solitons with generalized anti–cubic nonlinearity having multiplicative white noise by Itô Calculus", Optik, 2022.

A163. "Optical solitons with Manakov equation having multiplicative white noise by Itô Calculus", Optik, 2022.

A164. "New chirped gray and kink self–similar waves in presence of quintic nonlinearity and self–steepening effect", Physics Letters, Section A: General, Atomic and Solid State Physics, 2022.

A165. "Cubic–quartic optical solitons of perturbed Biswas–Milovic equation having Kudryashov's nonlinear form and two generalized non-local laws", Optik, 2022.

A166. "Cubic–quartic optical solitons in magneto-optic waveguides for Biswas–Milovic equation with Kudryashov's law of arbitrary refractive index", Optik, 2022.

A167. "Highly dispersive optical solitons in birefringent fibers having Kerr law of refractive index by Laplace–Adomian decomposition", Optik, 2022.

A168. "Highly Dispersive Optical Solitons in Birefringent Fibers with Polynomial Law of Nonlinear Refractive Index by Laplace–Adomian Decomposition", Mathematics, 2022.

A169. "Optical solitons for Biswas–Arshed equation with multiplicative noise via Itô calculus using three integration algorithms", Optik, 2022.

A170. "Highly dispersive optical solitons and conservation laws in absence of self–phase modulation with new Kudryashov's approach", Physics Letters, Section A: General, Atomic and Solid State Physics, 2022.

A171. "Dark solitons with anti-cubic and generalized anti-cubic nonlinearities in an optical fiber", Optik, 2022.

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